

van Dantzig 2000



*The Scientific Family Tree
of David van Dantzig*

Constance van Eeden

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The Scientific Family Tree of
David van Dantzig

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FOREWORD

David van Dantzig (1900-1959) was “privaatdocent Bijzondere Hoofdstukken der Wiskunde” in the “Faculteit der Wiskunde en Natuurwetenschappen” at the Universiteit van Amsterdam from 1932 to 1940 and Professor with a Chair in the “Leer der collectieve verschijnselen” in this same faculty from 1946 to 1959. He was also Lecturer (1932-1938), Extraordinary Professor (1938-1940) and Professor (1940 and 1945-1946) in pure and applied mathematics at the Technische Hoogeschool Delft.

He had four PhD students and the purpose of this booklet is to present an as complete as possible list of PhDs who became a member of his scientific family on or before 15 February 2000. And by “A is a member of this scientific family”, I mean that A can trace his “scientific ancestry” back to David van Dantzig through (co-)promotors.

In memory of Professor David van Dantzig, the “Vereniging voor Statistiek en Operationele Research” (Dutch Association for Statistics and Operations Research) awards, once every five years, the “van Dantzigprijs” to a colleague who is less than 40 years old and who has, during the foregoing five years, made an especially valuable contribution – either theoretical, or practical – to the field of statistics or operations research.

In the lists below, the recipients of this prize are identified at the first place their name appears. The year in which they received this award is given there too.

Many thanks to all who helped me assemble the data, in particular to Mary-ellen Bock and Norma Lucas of Purdue University, Arthur Cohen of Rutgers University and Jack Hall of the University of Rochester who provided me with the data on the PhDs of J.H.B. Kemperman, and to Laurens de Haan and Olga F.J.M. Gilissen of the Erasmus Universiteit who helped me assemble the data on the PhDs of A.H.G. Rinnooy Kan. Many thanks also to J.J.P.M. Swelsen, archivist at the University of Amsterdam, for his help in the early stages of the preparation of the tree.

We refer the reader to *Twee Geesten van de Wiskunde* by Gerard Alberts, Stichting Mathematisch Centrum, 2000 for a biography of David van Dantzig.

Broek in Waterland,
The Netherlands,
31 May 2000

Constance van Eeden

ABOUT HOW THE DATA ARE PRESENTED

The family members are listed by generation, within each generation by PhD-thesis supervisor (“promotor” in Dutch and “directeur (de recherche)” in French) and, for the PhDs of a given supervisor, in decreasing order of age. Further, for a given generation, the supervisors are listed in decreasing order of their own supervisors age and, in case two of them have the same supervisor, in decreasing order of their own age. In determining the age of a PhD, the date (year) of obtaining his/her PhD degree is taken as his/her birthday (birthyear). For each person in the list, his/her thesis title as well as the date on which he/she defended his/her thesis (or the year in which the degree was granted) is given. The university mentioned in the heading of each sub-list is, unless otherwise mentioned, the one at which the PhDs in that sub-list received their degrees.

Note that, because students may have more than one tree-member as (co-)promotor, some PhDs are listed several times – once for each of those of their (co-)promotors who is a tree-member. In case the several (co-)promotors are not of the same generation, these multiply-listed PhDs show up in more than one generation. For such multiply-listed PhDs who are themselves (co-)promotors, the generation number of their PhDs is taken as “the lowest generation number among their (co-)promotors + 1”.

The table of contents (which starts on page 5) lists all those in the tree who have been (co-)promotors, with mention of the generation number of their PhDs, the number of PhD students they have had up to now, as well as the page number(s) on which their PhDs are listed.

An alphabetical list of the tree-members can be found on pages 79 to 84. A similar list of (co-)promotors of tree-members who are, themselves, not tree-members is given on pages 85 to 87. Each of these lists also gives the page numbers on which each person’s name appears.

ABOUT THE COMPLETENESS AND CORRECTNESS OF THIS VERSION
OF DAVID VAN DANTZIG'S TREE

As of the 15 of February 2000, the here presented scientific family tree of David van Dantzig is not complete. What is missing is

- 1) The data on the PhDs of A. Federgruen (himself a PhD of G. de Leve). Federgruen did not react to my requests for data on his PhDs;
- 2) The branches of the tree which start with the PhDs of J.H.B. Kemperman. Because I do, for most of Kemperman's PhDs, not know where they presently are, retrieving information on their branches will be difficult and in some cases maybe even impossible. I have not started trying to see how far I can get.
- 3) The fifth generation is incomplete because I have not yet contacted everybody in the fourth generation for information concerning their PhD students. An example of a missing fifth generation family member is a PhD of S. Zhang, but I am quite sure that there are others.

About the correctness: I have, of course, had to rely on the data I received from the PhD supervisors, or from the PhDs themselves. In what I received I corrected obvious misprints. I also settled, as well as I could, differences I found between data about the same PhD received from different sources. My apologies for any left-over errors and I would very much appreciate it if finders of errors would let me know about them.

The total number of tree-members (inclusive van Dantzig) in the here presented version is 356 and of those 54 have been (co-)promotors. The number of (co-)promotors who are not members of the tree is 132.

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THE FIRST GENERATION

THE PHD STUDENTS OF D. VAN DANTZIG

UNIVERSITEIT VAN AMSTERDAM, THE NETHERLANDS

J. Hemelrijk*	13 December 1950	Symmetrietoesten en andere toepassingen van de theorie van Neyman en Pearson
J.H.B. Kemperman*	20 December 1950	The general one-dimensional random walk with absorbing barriers, with applications to sequential analysis
D.J. Stoker	19 January 1955	Oor 'n klas van toetsingsgrootthede vir die probleem van twee steekproewe
C. van Eeden* **	4 June 1958	Testing and estimating ordered parameters of probability distributions

* Degrees awarded *cum laude*

** Constance van Eeden is the recipient of the 1990 Gold Medal of the Statistical Society of Canada awarded to her for "her achievements in statistics, particularly in the area of non-parametric methods; for her leadership in the development of graduate programs in statistics and for her countless contributions to statistical activities"

THE SECOND GENERATION

THE PHD STUDENTS OF J. HEMELRIJK
UNIVERSITEIT VAN AMSTERDAM, THE NETHERLANDS

G. de Leve	20 May 1964	Generalized Markovian decision processes (co-promotor: J.Th. Runnenburg)
W.R. van Zwet ^{*,+}	8 July 1964	Convex transformations of random variables
R. Doornbos	18 May 1966	Slippage tests
W. Molenaar	6 May 1970	Approximations to the Poisson, binomial and hypergeometric distribution functions (co-promotor: W.R. van Zwet)
J.J. Dik	1 April 1981	Tests for preference

* Willem R. van Zwet is the recipient of the 1970 van Dantzig prize

+ Degree awarded *cum laude*

THE SECOND GENERATION (continued)

THE PHD STUDENTS OF J.H.B. KEMPERMAN

PURDUE UNIVERSITY, WEST LAFAYETTE, INDIANA, USA

C.J. Sinke	1954	New methods for obtaining the coefficients in certain asymptotic expansions
T.D. Riney	1954	On the coefficients occurring in the asymptotic expansion of the generalized hypergeometric function
J.A. Navarro	1955	Theory of transect sampling
L.E. Grosh	1954	Uniform distribution and round-off error
J. Stapleton	1957	On the theory of asymptotic distributions (mod 1) and its extension to abstract spaces
F. Carroll	1960	Non-continuable analytic functions and functional equations in general spaces
K.N. Majumdar	1961	An investigation of the properties of incomplete block designs
F. John	1961	Problems in queuing and storage treated by a Wiener-Hopf method

THE PHD STUDENTS OF J.H.B. KEMPERMAN (continued)

UNIVERSITY OF ROCHESTER, ROCHESTER, NY, USA*

C.M. Colebrook	1966	On non-normal numbers
M.J. Siegel	1969	On birth and death processes
L.J. Mirman	1970	Two essays on uncertainty and economics
H. Blanchard	1971	Growth patterns of sumsets sequences ($C_p = C + \dots + C$) in Abelian groups: holes, multiplicities, and root sets
D.F. Girod	1972	The functional equation $\sum_{j=0}^n a_j f(x + T_j y) = 0$
D.T. Gantz	1974	Stochastic iterates of set-to-set transformations with applications to dynamic systems in economics
P. Reimnitz	1977	A study of "two-armed bandits"
M.A. Maher	1978	Random walks on the positive quadrant
D.C. Cox	1979	Sharp inequalities for martingales
O.J. Dotto	1982	Dilations and stochastic processes
G. Anastassiou	1984	A study of positive linear operators by the method of moments
F. Beauvais	1987	Reconstructing a set or measure with finite support from its images
E. Acuña	1989	Modality of mixtures of distributions

* In this list the years are those appearing in the thesis and might therefore not be the year in which the PhD degree was obtained.

THE PHD STUDENTS OF J.H.B. KEMPERMAN (continued)

RUTGERS UNIVERSITY, NEW BRUNSWICK, NJ, USA

E. Pickering	May 1990	Patterns by descent in a stochastic mating system
D. Choi	May 1995	On the latent trait models with items of equal difficulty

THE SECOND GENERATION (continued)

THE DSC AND PHD STUDENTS OF D.J. STOKER

UNIVERSITEIT VAN PRETORIA, SOUTH AFRICA

H.H. Lemmer	May 1964	Verdelingsvrye toetsingsmetodes vir die probleem van twee of meer steekproewe (DSc)
S.G. Reinach	February 1966	Distribution-free methods in experimental design (DSc, Agriculture)
H.S. Schoeman	November 1967	Verdelingsvrye toetse vir die simmetrieprobleem en 'n aanverwante probleem (DSc)
Chr.F. Smit	May 1974	Die konstruksie en eienskappe van 'n klas van meerveranderlike verdelingsvrye toetse (DSc)
F.L. Vivier	October 1974	Inkome-elasticiteit van Suid-Afrika se belastingstelsel: 'n Ekonometriese studie (DCom)
J.F. Waldeck	July 1978	Die doeltreffendheid van 'n klas van verdelingsvrye toetsgrootthede vir die tweesteekproefprobleem in die geval van middelslag steekproefgroottes (DSc)
R. Markham	May 1979	The method of n rankings when the underlying distributions are discrete (DSc)
H.T. Groeneveld	May 1981	Ontbrekende voorspellers in en hipotesetoetsing by die line-ere model in die analise van ongebalanseerde data (DSc)

THE DSC AND PHD STUDENTS OF D.J. STOKER (continued)

N.G.N. Swart	June 1984	Verdelingsvrye toetse in die twee-steekproefprobleem vir gevalle waar nie aan alle vereiste voorwaardes voldoen word nie (DSc) (supervisors: Chr.F. Smit and D.J. Stoker)
M. du Toit	December 1995	The analysis of hierarchical and unbalanced complex survey data using multi-level models (PhD)

THE SECOND GENERATION (continued)

THE PHD STUDENTS OF C. VAN EEDEN

UNIVERSITÉ DE MONTRÉAL, CANADA

M. Moore	July 1971	Sur la construction des schémas
Y. Lepage	January 1972	Une classe de tests nonparamétriques pour les paramètres de location et de dispersion
D. Labelle	April 1975	Sur un test nonparamétrique de périodicité
L. Dionne	December 1975	Classes d'estimateurs basés sur les rangs, asymptotiquement efficaces et indépendants de la distribution des observations
S. Tardif *	December 1978	Étude d'une classe de tests construite à l'aide de la méthode du rangement après alignement dans un plan de blocs aléatoires
A. Boulanger	March 1979	Estimation nonparamétrique basée sur des statistiques du type Kolmogorov-Smirnov
A. Charras	June 1980	Propriété bayésienne et admissibilité d'estimateurs dans un sous-ensemble de R^p .
R. Dufour	October 1982	Tests d'ajustement pour des échantillons tronqués ou censurés (directors: U.R. Maag and C. van Eeden)

*Serge Tardif is the recipient of the 1980 Pierre-Robillard Award of the Statistical Society of Canada for the best paper in statistics by a graduate student at a Canadian university. This paper is based on his PhD-thesis results. Serge died on 26 September 1998

THE PHD STUDENTS OF C. VAN EEDEN (continued)

L. Baghagha	December 1983	Estimation par le maximum de vraisemblance dans les modèles de réponses aléatoires
D. Colin *	December 1984	L'étude de tests asymptotiquement non-paramétriques en régression linéaire multiple
S. Froda	December 1984	Étude nonparamétrique de questions d'estimation et de tests d'hypothèses relatives au problème d'un échantillon
J. Meloche	January 1989	Sur l'estimation de densités symétriques
D. Larocque	October 1997	Tests de signe et de rangs affines-invariants pour k ($k \geq 1$) échantillons et pour la régression linéaire (co-director with S. Tardif as director)

* Dominique Colin died on 30 May 1990

THE THIRD GENERATION

THE PHD STUDENTS OF G. DE LEVE

UNIVERSITEIT VAN AMSTERDAM, THE NETHERLANDS

H.C. Tijms	19 April 1972	Analysis of (s, S) inventory models
A.H.G. Rinnooy Kan*	28 January 1976	Machine scheduling problems: classification, complexity and computations
J.K. Lenstra	25 February 1976	Sequencing by enumerative methods
A. Federgruen	17 May 1978	Markovian control problems, functional equations and algorithms (promotors: G. de Leve and H.C. Tijms)
P.J. Weeda	31 May 1978	Finite generalized Markov programming
A.W.J. Kolen	3 March 1982	Location problems on trees and in the rectilinear plane
R. Jonker	12 November 1986	Traveling salesman and assignment algorithms: design and implementation
A. Volgenant	18 February 1987	Contributions to the solution of the traveling salesman problem and related problems
J.B.J.M. de Kort	17 December 1992	Edge-disjointness in combinatorial optimization
N. Piersma	25 July 1993	Combinatorial optimization and empirical processes (promotors: G. de Leve and J.M. Steele)
H.J. van der Sluis	7 September 1993	Heuristics for complex inventory systems
C.W. Duin	26 January 1994	Steiner's problem in graphs: approximation, reduction and variation

* A.H.G. Rinnooy Kan is the recipient of 1985 van Dantzig prize

THE THIRD GENERATION (continued)

THE PHD STUDENTS OF W.R. VAN ZWET

RIJKSUNIVERSITEIT LEIDEN, THE NETHERLANDS

J. Oosterhoff	26 June 1969	Combination of one-sided statistical tests
W. Molenaar	6 May 1970	Approximations to the Poisson, binomial and hypergeometric distribution functions (co-promotor with J. Hemelrijk as promotor)
F.H. Ruymgaart	30 May 1973	Asymptotic theory of rank tests for independence
W. Albers	27 June 1974	Asymptotic expansions and the deficiency concept in statistics
J.L. Mijnheer	2 September 1974	Sample path properties of stable processes (promotors: J. Fabius and W.R. van Zwet)
M.C.A. van Zuijlen	15 December 1976	Empirical distributions and rank statistics
R. Helmers	13 December 1978	Edgeworth expansions for linear combinations of order statistics
C.A.J. Klaassen	22 October 1980	Statistical performance of location estimators
R.J.M.M. Does	16 June 1982	Higher order asymptotics for simple linear rank statistics
A.W. van der Vaart	4 June 1987	Statistical estimation in large parameter spaces (co-promotor: C.J.A. Klaassen)
S.A. van de Geer	30 September 1987	Regression analysis and empirical processes (promotors: R.D. Gill and W.R. van Zwet)

THE PHD STUDENTS OF W.R. VAN ZWET (continued)

M.C.M. de Gunst	2 March 1988	A random model for plant cell population growth (promotors: K.R. Libbenga and W.R. van Zwet)
H. Putter	23 November 1994	Consistency of resampling methods
M. Wegkamp	26 June 1996	Entropy methods in statistical estimation (co-promotor: S.A. van de Geer)
C.G.H. Diks	25 September 1996	On nonlinear time series analysis (promotors: F. Takens and W.R. van Zwet)
M. Fiocco	15 October 1997	Statistical estimation for the supercritical contact process

THE THIRD GENERATION (continued)

THE PHD STUDENTS OF R. DOORNBOS

TECHNISCHE UNIVERSITEIT EINDHOVEN, THE NETHERLANDS

P. van der Laan	26 June 1970	Simple distribution-free confidence intervals for a difference in location (co-promotor with L.C.A. Corsten as promotor)
H.N. Linssen	5 September 1980	Functional relationships and minimum sum estimation (first promotor R. Doornbos, second promotor G.W. Veltkamp)
E.E.M. van Berkum	15 October 1985	Optimal paired comparison designs for factorial experiments (first promotor R. Doornbos, second promotor P.C. Sander)
L.T.M.E. Hillegers	19 December 1986	The estimation of parameters in functional relationships (first promotor R. Doornbos, second promotor P.C. Sander; co-promotor: H.N. Linssen)
J.B. Dijkstra	17 November 1987	Analysis of means in some non-standard situations (first promotor R. Doornbos, second promotor P.J. Rousseeuw)
P.M. Upperman	23 March 1993	Designs with a small number of runs for factorial experiments (second promotor with P. van der Laan as first promotor and E.E.M. van Berkum as co-promotor)

THE THIRD GENERATION (continued)

THE PHD STUDENTS OF W. MOLENAAR

RIJKSUNIVERSITEIT GRONINGEN, THE NETHERLANDS

F.P.H. Dijksterhuis	21 June 1973	De gevangenis Bankenbos II (co-promotor with W. Buikhuisen as promotor)
H. van der Laan	13 December 1973	Leren lezen, schrijven en rekenen (co-promotor with W.J. Bladergroen as promotor)
H.L.W. Angenent	20 June 1974	Opvoeding, persoonlijkheid en gezinsverhoudingen in verband met criminaliteit (co-promotor with W. Buikhuisen as promotor)
R. van der Kooy	14 October 1974	Spelen met Spel (co-promotor with W.J. Bladergroen as promotor)
G.J.P. Visser	8 October 1975	Luxatie-fracturen van de enkel (promotors: P.J. Kuijjer and W. Molenaar)
H. Cohen	9 October 1975	Drugs, druggebruikers en drug-scene (co-promotor with W. Buikhuisen as promotor)
N.A.J. Lagerweij	9 December 1976	Handleidingen in het onderwijs (co-promotor with L. van Gelder as promotor)
G.G.H. Jansen	24 November 1977	An application of Bayesian statistical methods to a problem in educational measurement (promotors: W. Molenaar and W.K.B. Hofstee)

THE PHD STUDENTS OF W. MOLENAAR (continued)

J.M.F. ten Berge	15 December 1977	Optimizing factorial invariance (promotor J.P. van de Geer; co-promotors: W.K.B. Hofstee and W. Molenaar)
L. Dijkstra	19 January 1978	Ontvouwing. Over het afbeelden van rangordes van voorkeur in ruimtelijke modellen (promotors: I. Gadourek and W. Molenaar)
F.B. Brokken	22 June 1978	The language of personality (co-promotor with W.K.B. Hofstee as promotor)
K.M. Stokking	21 June 1979	Toetsend onderzoek (co-promotor: L.W. Nauta)
P. Vijn	10 January 1980	Prior information in linear models
H.H. de Vos	13 March 1980	Het meten van werkoriëntaties, een vergelijking van verschillende technieken voor het meten van houdingen (co-promotor: I. Gadourek)
Tj. Tijmstra	24 April 1980	Sociologie en tandheelkunde (co-promotor with I. Gadourek as promotor)
H. Kuyper	29 May 1980	About the saliency of social comparison dimensions (promotors: H.A.M. Wilke and W. Molenaar)
T.P.B.M. Suurmeijer	16 December 1980	Kinderen met epilepsie (promotors: Th.J. IJzerman and W. Molenaar)

THE PHD STUDENTS OF W. MOLENAAR (continued)

R. de Groot	27 August 1981	Adolescenten met leermoeilijkheden in het LBO (co-promotor with W.J. Bladergroen as promotor)
R. Nauta	24 September 1981	Studie politiek cultuur (promotors: P.J. van Strien and W. Molenaar)
H.H. van der Molen	28 April 1983	Pedestrian ethology (co-promotor with J.A. Michon as promotor)
A. Boomsma	23 June 1983	On the robustness of LISREL (maximum likelihood estimation) against small sample size and non-normality
T.J. Euverman & A.A. Vermulst	3 November 1983	Bayesian factor analysis
R. Popping	15 December 1983	Overeenstemmingsmaten voor nominale data (promotors: F.N. Stokman and W. Molenaar)
B.F. van der Meulen & M.R. Smrkovsky	23 February 1984	Bayley ontwikkelingsschalen (promotors: A.F. Kalverboer and W. Molenaar)
P.F. Lourens	24 May 1984	The formalization of knowledge by specification of subjective probability distributions (promotors: W. Molenaar and W.K.B. Hofstee)
A. de Jong	13 September 1984	Over psychiatrische invaliditeit (promotors: R. Giel and W. Molenaar)

THE PHD STUDENTS OF W. MOLENAAR (continued)

J. Geersing	4 October 1984	Leiding & Participatie in het werk (promotors: P.J. van Strien, W. Molenaar and P. Veen)
H. van Schuur	13 December 1984	Structure in political beliefs. A new model for stochastic unfolding with application to European Party activists (promotors: F.N. Stokman and W. Molenaar)
J. Ax	9 May 1985	Planningsgedrag van leraren. Een empirisch onderzoek naar de onderwijsplanning door leraren in het voortgezet onderwijs (promotors: H.P.M. Creemers, W. Molenaar and N.A.J. Lagerweij)
H.J.A. Schouten	20 November 1985	Statistical measurement of interobserver agreement. Analysis of agreements and disagreements between observers (promotors: R. van Strik and W. Molenaar)
F.E. Zegers	11 December 1986	A general family of association coefficients (promotors: W. Molenaar and W.K.B. Hofstee)
M. Kompier	31 March 1988	Arbeid en gezondheid van stadsbuschauffeurs (promotors: G. Mulder, F.J.H. van Dijk and W. Molenaar)
K. Sijtsma	2 June 1988	Contributions to Mokken's nonparametric item response theory (co-promotor: P.J.D. Drenth)
P. Terlouw	20 April 1989	Subjective probability distributions, a psychometric approach (promotors: W. Molenaar and W.K.B. Hofstee)

THE PHD STUDENTS OF W. MOLENAAR (continued)

Y.J. Pijl	31 August 1989	Het toelatingsonderzoek in het LOM-en MLK-onderwijs (promotors: H.P.M. Creemers, W. Molenaar and J. Rispens)
T.C.W. Luijben	30 November 1989	Statistical guidance for model modification in covariance structure analysis
W. Schoonman	21 December 1989	An applied study on computerized adaptive testing (promotors: W. Molenaar and W.K.B. Hofstee)
H.J.A. Hoijtink	7 June 1990	PARELLA, Measurement of latent traits by proximity items
I. van Kamp	6 September 1990	Coping with noise and its health consequences (promotors: G. Mulder and W. Molenaar)
G.I.J.M. Kempen	25 October 1990	Thuiszorg voor ouderen (promotors: W.J.A. van den Heuvel and W. Molenaar)
J.A. Laros & P.J. Tellegen	Februari 1991	Construction and validation of the SON-R $5\frac{1}{2}$ -17, the Snijders-Oomen non-verbal intelligence test (promotors: W.K.B. Hofstee, T.A.B. Snijders and W. Molenaar)
T.F. Meijman	25 April 1991	Over vermoeidheid (promotors: G. Mulder, W. Molenaar and Hk. Thierry)
H. Meurs	19 September 1991	A panel data analysis of travel demand (promotors: T.J. Wansbeek, G. Ridder and W. Molenaar)

THE PHD STUDENTS OF W. MOLENAAR (continued)

W.J. Post	7 May 1992	Nonparametric unfolding models. A latent structure approach (promotors: with T.A.B. Snijders and W. Molenaar)
P. Cavalini	22 October 1992	It is an ill wind that brings no good (promotors: C.A.J. Vlek and W. Molenaar)
R. Festa	12 November 1992	Optimum inductive methods. A study in inductive probability, Bayesian statistics, and verisimilitude (first promotor T.A.F. Kuipers, second promotor promotor W. Molenaar)
M.A.J. van Duijn	4 February 1993	Mixed models for repeated count data (promotors: T.A.B. Snijders and W. Molenaar)
J. van Lenthe	16 September 1993	ELI. The use of proper scoring rules for eliciting subjective probability distributions (pomotors: W. Molenaar and W.K.B. Hofstee)
R.R. Meijer*	17 January 1994	Nonparametric Person Fit Analysis (promotors: W. Molenaar and P.J.D. Drenth; co-promotor: K. Sijtsma)
W.R.E.H. Mulder-Hajonides van der Meulen	2 November 1994	Categories or dimensions? the use of diagnostic models in psychiatry (promotors: R.H. van den Hoofdakker and W. Molenaar)
P.M. van der Lubbe	11 December 1995	De ontwikkeling van de Groningse vragenlijst over sociaal gedrag (GVSG) (promotors: R. Giel and W. Molenaar)

* Degree obtained at the Vrije Universiteit, Amsterdam, The Netherlands

THE PHD STUDENTS OF W. MOLENAAR (continued)

E.P.W.A. Jansen	4 April 1996	Curriculumorganisatie en studievoortgang (promotors: W.T.J.G. Hoeben and W. Molenaar)
P. de Kort	22 May 1996	Neglect (promotors: J.M. Minderhoud, B.G. Deelman and W. Molenaar)
B.T. Hemker*	27 September 1996	Unidimensional IRT models for polytomous items, with results for Mokken scale analysis (promotors: P.G.M. van der Heijden and W. Molenaar; copromotor: K. Sijtsma)
R.I. Gál	29 May 1997	Unreliability. Contract discipline and contract governance under economic transition (promotors: S.M. Lindenberg and W. Molenaar)
A. Camstra	7 May 1998	Cross-validation in covariance structure analysis
J.M.E. Huisman	4 February 1999	Item nonresponse: Occurrence, causes, and imputation of missing answers to test items

* Degree obtained at the Rijksuniversiteit Utrecht, The Netherlands. The degree was awarded *cum laude*

THE THIRD GENERATION (continued)

THE PHD STUDENTS OF Chr.F. SMIT

UNIVERSITEIT VAN PRETORIA, SOUTH AFRICA

N.G.N. Swart	June 1984	Verdelingsvrye toetse vir die twee-steekproefprobleem vir gevalle waar nie aan alle vereiste voorwaardes voldoen word nie (DSC) (supervisors: Chr.F. Smit and D.J. Stoker)
A. Lourens	April 1999	Finding the power of distribution-free tests using a computer algebra system

THE THIRD GENERATION (continued)

THE PHD STUDENTS OF H.H. LEMMER

RANDSE AFRIKAANSE UNIVERSITEIT, JOHANNESBURG, SOUTH AFRICA

F. Lombard	September 1974	Sekwensiele skattings- en toetsprosedures gebaseer op U-statistieke
S.J.M. Brits	September 1987	Voorwaardelik gespesifiseerde inferensie: Rangnommer vooraftsprosedures vir die verewekansigde blokontwerp en die genestelde ontwerp

THE THIRD GENERATION (continued)

THE PHD STUDENTS OF F.L. VIVIER

UNIVERSITEIT VAN PRETORIA, SOUTH AFRICA

H.J.G. Nel

April 1993

The development of an interregional
input-output table and model for the
Republic of South Africa

THE THIRD GENERATION (continued)

THE PHD STUDENTS OF H.T. GROENEVELD

UNIVERSITEIT VAN PRETORIA, SOUTH AFRICA

L.M. Irwing

Correcting for the effect of measurement error on the association between environmental exposure and respiratory impairment (co-supervisor: M. Becklake)

THE THIRD GENERATION (continued)

THE PHD STUDENTS OF M. MOORE

ÉCOLE POLYTECHNIQUE, MONTRÉAL, CANADA

S. Archambault*	November 1990	Tests basés sur des operateurs morphologiques pour l'ajustement d'images
S. Moussa	December 1994	Propriétés géométriques d'agrégats de polygones aléatoires et application à la classification d'images

UNIVERSITÉ DE MONTRÉAL, CANADA

L.D. Adjengue	October 1991	Estimation pour des processus spatiaux définis sur un treillis triangulaire
N. Rais	July 1992	Méthodes de rééchantillonnage et de sous-échantillonnage pour des variables aléatoires dépendantes et spatiales

* Sylvain Archambault is the recipient of the Pierre-Robillard Award for the best PhD thesis defended at a Canadian University in 1990 and written in the fields covered by the Canadian Journal of Statistics

THE THIRD GENERATION (continued)

THE PHD STUDENTS OF Y. LEPAGE

UNIVERSITÉ DE MONTRÉAL, CANADA

G. Ducharme	1983	La collapsibilité de tableaux de contingence
S. Dahel	1985	Estimation et inférence pour la moyenne d'une loi multinormale avec information additionnelle (directors: Y. Lepage and N. C. Giri)
J. Allaire	1991	Étude de mesures de liaison entre plusieurs vecteurs aléatoires
L. Houde	1991	Estimation de densités pour données groupées
L. Duchesne	1992	Le cheminement de carrière dans les communautés religieuses de femmes, au Québec, de 1920 à 1970 (directors: N. Laurin and Y. Lepage)
S. Poirier*	1993	Preception of Maryland community pharmacists regarding over-all effort (and its dimension) required to process prescriptions (directors: D. A. Knapp and Y. Lepage)
M. Mountassir	1993	Un test bivarié non paramétrique pour un problème de dispersion et de position bivarié
H. ElMaache	1997	Mesures d'association vectorielle basées sur des matrices de corrélation

* Degree obtained in the School of Pharmacy, University of Maryland

THE THIRD GENERATION (continued)

THE PHD STUDENTS OF S. TARDIF

UNIVERSITÉ DE MONTRÉAL, CANADA

E. Monga	14 June 1990	La méthode du rangement après substitution appliquée à un plan de carrés latins
C. Jubinville	22 November 1993	Méthode des rangements pondérés appliquée à un plan de carrés latins en réplique
F. Bellavance	17 May 1994	Étude des présupposés sous normalité dans les plans croisés suivie d'une analyse non paramétrique de certains d'entre eux
D. Larocque	October 1997	Tests de signe et de rangs affines-invariants bivariés pour $k (\geq 1)$ échantillons et pour la régression linéaire (co-director: C. van Eeden)

THE FOURTH GENERATION

THE PHD STUDENTS OF H.C. TIJMS

VRIJE UNIVERSITEIT, AMSTERDAM, THE NETHERLANDS

A. Federgruen*	17 May 1978	Markovian control problems: functional equations and algorithms (promoters: G. de Leve and H.C. Tijms)
G. van der Laan	29 February 1980	Simplicial fixed point algorithms (co-promotor: A.H.Q.M. Merkies)
A.J.J. Talman	29 February 1980	Variable dimension fixed point algorithms and triangulations (co-promotor: A.H.Q.M. Merkies)
M.H. van Hoorn	22 April 1983	Algorithms and approximations for queueing systems
O.J. Vrieze	10 June 1983	Stochastic games with finite state and action spaces
A.G. de Kok	29 March 1985	Production-inventory control models: approximations and algorithms
J.C.W. van Ommeren	15 June 1989	Asymptotic analysis of queueing systems
E. Smeitink	16 April 1992	Stochastic models for repairable systems (co-promotor: N.M. van Dijk)
R.J. Boucherie	21 May 1992	Product-form in queueing networks (co-promotor N.M. van Dijk)
M. van der Heijden	20 September 1993	Performance analysis for reliability and inventory models
F.N. Gouweleeuw	28 November 1996	A general approach to computing loss probabilities in finite-buffer queues
M. Mandjes	3 December 1996	Rare event analysis of communication systems
R.D. Nobel	10 November 1998	Hysteretic and heuristic control of queueing systems

*Degree obtained at the Universiteit van Amsterdam, The Netherlands

THE FOURTH GENERATION

THE PHD STUDENTS OF A.H.G. RINNOOY KAN

ERASMUS UNIVERSITEIT, ROTTERDAM, THE NETHERLANDS

C.G.E. Boender	7 June 1984	The generalized multinomial distribution: a Bayesian analysis and applications
G.Th. Timmer	7 June 1984	Global optimization: a stochastic approach
L. Stougie	30 May 1985	Design and analysis of algorithms for stochastic integer programming (promotors: J.K. Lenstra and A.H.G. Rinnooy Kan)
P.J.M. van Laarhoven	18 February 1988	Theoretical and computational aspects of simulated annealing (promotors: J.K. Lenstra and A.H.G. Rinnooy Kan; co-promotor: E.H.L. Aarts)
A.H. Vellekoop	31 Augustus 1989	Decision support for the analysis of economic risk with an application in the dredging industry (co-promotor: C.G.E. Boender)
A.P.M. Wagelmans	27 september 1990	Sensitivity analysis in combinatorial optimization (promotors: A.W.J. Kolen and A.H.G. Rinnooy Kan)
H.W.J.M. Trienekens	22 November 1990	Parallel branch-and-bound algorithms (co-promotor: A. de Bruin)
V.A. Strusevich	21 May 1991	Complexity aspects of shop scheduling problems (promotors: A.H.G. Rinnooy Kan and L.N. van Wassenhove)
M. van Vliet	6 June 1991	Optimization of manufacturing system design (promotors: O.J. Boxma and A.H.G. Rinnooy Kan)
S. Zhang	27 June 1991	Stochastic queue location problems (co-promotor: J.B.G. Frenk)

THE PHD STUDENTS OF A.H.G. RINNOOY KAN (continued)

C.P.M. van Hoesel	28 November 1991	Models and algorithms for single-item lot sizing problems (promotors: A.W.J. Kolen and A.H.G. Rinnooy Kan)
H.E. Romeijn	3 September 1992	Global optimization by random walk sampling methods (promotors: A.H.G. Rinnooy Kan and R.L. Smith)
B. Chen	9 June 1994	Worst-case performance of scheduling heuristics (promotors: A.H.G. Rinnooy Kan and L.N. van Wassenhove)
A.I. Martins Botto de Barros	26 January 1995	Discrete and fractional programming techniques for location models (co-promotor: J.B.G. Frenk)
J.A. dos Santos Gromicho	26 January 1995	Quasiconvex optimization and location theory (co-promotor: J.B.G. Frenk)
A. van Vliet	16 February 1995	Lower and upper bounds for on-line bin packing and scheduling heuristics
C.L. Dert	30 November 1995	Asset liability management for pension funds (promotors: C.G.E. Boender and A.H.G. Rinnooy Kan)
O.E. Flippo	14 December 1998	Stability, duality and decomposition in general mathematical programming

THE FOURTH GENERATION (continued)

THE PHD STUDENTS OF J.K. LENSTRA

UNIVERSITEIT VAN AMSTERDAM, THE NETHERLANDS

A.W.J. Kolen	3 March 1982	Location problems on trees and in the rectilinear plane (co-promotor with G. de Leve as promotor)
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ERASMUS UNIVERSITEIT, ROTTERDAM, THE NETHERLANDS

L. Stougie	30 May 1985	Design and analysis of algorithms for stochastic integer programming (promotors: J.K. Lenstra and A.H.G. Rinnooy Kan)
P.J.M. van Laarhoven	18 February 1988	Theoretical and computational aspects of simulated annealing (promotors: J.K. Lenstra and A.H.G. Rinnooy Kan with E.H.L. Aarts as co-promotor)
M.W.P. Savelsbergh	31 March 1988	Computer aided routing
L.C.R.J. Willenborg*	30 June 1988	Computational aspects of survey data processing (promotors: A. Kapteyn and J.K. Lenstra)
G.A.P. Kindervater	15 June 1989	Exercises in parallel combinatorial computing

* Degree obtained at the Katholieke Universiteit Brabant, Tilburg, The Netherlands

THE PHD STUDENTS OF J.K. LENSTRA (continued)
 TECHNISCHE UNIVERSITEIT EINDHOVEN, THE NETHERLANDS

S.L. van de Velde	5 April 1991	Machine scheduling and Lagrangian relaxation
J.A. Hoogeveen	7 February 1992	Single-machine bicriteria scheduling
J.H.M. Korst	18 December 1992	Periodic multiprocessor scheduling (first promotor: J.K. Lenstra, second promotor: E.H.L. Aarts)
B. Veltman	18 May 1993	Multiprocessor scheduling with communication delays
M. Sol	8 November 1994	Column generation techniques for pickup and delivery problems (first promotor: J.K. Lenstra, second promotor: M.W.P. Savelsbergh)
J.M. van den Akker	21 December 1994	LP-based solution methods for single-machine scheduling problems (first promotor: J.K. Lenstra, second promotor: M.W.P. Savelsbergh; co-promotor C.A.J. Hurkens)
M. Wennink	15 September 1995	Algorithmic support for automated planning boards (first promotor: J.K. Lenstra, second promotor: M.W.P. Savelsbergh)
R.J.M. Vaessens	22 September 1995	Generalized job shop scheduling: Complexity and local search (first promotor: J.K. Lenstra, second promotor: E.H.L. Aarts)
W.F.J. Verhaegh	20 December 1995	Multidimensional periodic scheduling (first promotor: E.H.L. Aarts, second promotor: J.K. Lenstra; co-promotor: J.H.M. Korst)
M.G.A. Verhoeven	7 March 1996	Parallel local search (first promotor: E.H.L. Aarts, second promotor: J.K. Lenstra)

THE PHD STUDENTS OF J.K. LENSTRA (continued)

TECHNISCHE UNIVERSITEIT EINDHOVEN, THE NETHERLANDS

H.J. Vaes	4 June 1996	An event driven job shop scheduling system applied to the vertex system (first promotor: J.E. Rooda, second promotor: J.K. Lenstra)
W. Yu	5 June 1996	The two-machine flow shop problem with delays and the one-machine total tardiness problem (first promotor: J.K. Lenstra, second promotor: P. Brucker; co-promotor J.A. Hoogeveen)
C.A. van Eijl	14 June 1996	A polyhedral approach to the discrete lot-sizing and scheduling problem (first promotor: J.K. Lenstra, second promotor: Y. Pochet; co-promotor C.P.M. van Hoesel)
A.P.A Vestjens	7 November 1997	On-line machine scheduling (first promotor: J.K. Lenstra, second promotor: E.H.L. Aarts; co-promotor J.A. Hoogeveen)
W.H.M. Raaymakers	10 September 1999	Order acceptance and capacity in batch process industries (first promotor: J.W.M. Bertrand, second promotor: J.K. Lenstra; co-promotor J.C. Fransco)
S.R. Tiourine	21 December 1999	Decision support by combinatorial optimization: case studies (first promotor: J.K. Lenstra, second promotor: J. Wessels)

THE FOURTH GENERATION (continued)

THE PHD STUDENTS OF A.W.J. KOLEN

ERASMUS UNIVERSITEIT, ROTTERDAM, THE NETHERLANDS

A.P.M. Wagelmans	27 September 1990	Sensitivity analysis in combinatorial optimization (promotors: A.W.J. Kolen and A.H.G. Rinnooy Kan)
L.G. Kroon	6 December 1990	Job scheduling and capacity planning in aircraft maintenance (promotors: A.W.J. Kolen and J.A.E.E. van Nunen)
A.P. Woerlee	18 April 1991	Decision support systems for production scheduling (promotors: K.M. van Hee and A.W.J. Kolen)
P.J. Verbeek	30 May 1991	Learning about decision support systems: Two case studies on manpower planning in an airline
W.H.L.M. Pijls	14 November 1991	Shortest paths and game trees
C.P.M. van Hoesel	28 November 1991	Models and algorithms for single-item lot sizing problems (promotors: A.W.J. Kolen and A.H.G. Rinnooy Kan)

LANDBOUWUNIVERSITEIT WAGENINGEN, THE NETHERLANDS

W.H.G.J. Hennen	17 February 1995	Detector knowledge-based systems for dairy farm management support and policy analysis: Methods and applications (promotors: A.W.J. Kolen and L.C. Zachariasse)
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THE PHD STUDENTS OF A.W.J. KOLEN (continued)

UNIVERSITEIT MAASTRICHT, THE NETHERLANDS

A.G. Oerlemans	9 October 1992	Production planning for flexible manufacturing systems
R. van der Wal	7 September 1995	Trees and objects: Applying object-oriented techniques to enumerative tree searching
J.J. van de Klundert	7 June 1996	Scheduling problems in automated manufacturing (promotors: Y. Crama and A.W.J. Kolen)
M. Oosten	6 December 1996	A polyhedral approach to grouping problems (promotors: Y. Crama, A.W.J. Kolen and O.J. Vrieze)
R.L.M.J. van de Leensel	10 June 1999	Models and algorithms for telecommunication network design
A.M.C.A. Koster	4 November 1999	Frequency assignment: Models and algorithms

THE FOURTH GENERATION (continued)

THE PHD STUDENTS OF J. OOSTERHOFF

VRIJE UNIVERSITEIT, AMSTERDAM, THE NETHERLANDS

W.C.M. Kallenberg	14 December 1977	Asymptotic optimality of likelihood ratio tests in exponential families
P. Groeneboom	14 June 1979	Large deviations and asymptotic efficiencies
R.D. Gill	20 December 1979	Censoring and stochastic integrals (co-promotor: C.L. Scheffer)
P.D. Bezemer	8 May 1981	Referentiewaarden (co-promotor with Chr.L. Rümke as promotor)
A.D.M. Kester	22 June 1983	Some large deviation results in statistics (co-promotor: W.C.M. Kallenberg)
B.F. Schriever	21 June 1985	Order dependence (co-promoter: R.D. Gill)
F.C. Drost	7 October 1987	Asymptotics for generalized chi-square goodness-of-fit tests (co-promotor: W.C.M. Kallenberg)
M.N.M. van Lieshout	7 April 1994	Stochastic geometry models in image analysis and spatial statistics (co-promotor with A.J. Baddeley as promotor)

THE FOURTH GENERATION(continued)

THE PHD STUDENTS OF F.H. RUYMGAART

KATHOLIEKE UNIVERSITEIT NIJMEGEN, THE NETHERLANDS

M.J.M. Jansen	25 June 1981	Equilibria and optimal threat strategies in two-person games (co-promotor: T.E.S. Raghavan)
J.A.M. van Druten	1 October 1981	A mathematical-statistical model for the analysis of cross-sectional serological data with special reference to the epidemiology of malaria (co-promotor with J.H.E.Th. Meuwissen as promotor)
J.H.J. Einmahl	16 May 1986	Multivariate empirical processes (co-promotor: D.M. Mason)
G. Nieuwenhuis	12 June 1989	Asymptotics for point processes and general linear processes (co-promotor: W. Vervaat)

TEXAS TECHNICAL UNIVERSITY, LUBBOCK, USA

A.K. Dey	August 1994	Cross-validation for parameter selection in statistical inverse estimation problems
K. Chandrawansa	December 1997	Statistical inverse estimation of irregular input signals

THE FOURTH GENERATION(continued)

THE PHD STUDENTS OF W. ALBERS

RIJKSUNIVERSITEIT LIMBURG, MAASTRICHT, THE NETHERLANDS

L.W.G. Strijbosch	21 April 1989	Experimental design and statistical evaluation of limiting dilution assays (co-promotor: R.J.M.M. Does)
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UNIVERSITEIT TWENTE, ENSCHEDE, THE NETHERLANDS

C.A.W. Glas*	12 October 1989	Contributions to estimation and testing Rasch models (promotors: W.J. van der Linden and W. Albers)
A.J. Koning	8 March 1991	Stochastic integrals and goodness-of-fit tests (co-promotor: J.H.J. Einmahl)
G.D. Otten	23 June 1995	Statistical test limits in quality control (co-promotor: W.C.M. Kallenberg)
G.R.J. Arts	12 June 1998	Test limits in quality control using correlated product characteristics (co-promotor: W.C.M. Kallenberg)
P.C. Boon	17 December 1999	Asymptotic behavior of pre-test procedures (co-promotor: W.C.M. Kallenberg)

* Degree awarded *cum laude*

THE FOURTH GENERATION (continued)

THE PHD STUDENTS OF M.C.A. VAN ZUIJLEN

KATHOLIEKE UNIVERSITEIT, LEUVEN, BELGIUM

J.A. Beirlant	1984	Eigenschappen van de empirische verdelingsfunctie en het empirisch proces van toevalsafstanden en asymptotische theorie van hierop gebaseerde statistische functionalen (co-promotor with E.C. van der Meulen as promotor)
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KATHOLIEKE UNIVERSITEIT NIJMEGEN, THE NETHERLANDS

T. van der Meer	12 June 1995	Applications of operators in nearly unstable models (co-promotor with W.Th.F. den Hollander as promotor)
I. Alberink	26 January 2000	Berry-Esseen bounds for arbitrary statistics (co-promotor with W.Th.F. den Hollander as promotor)

THE FOURTH GENERATION (continued)

THE PHD STUDENTS OF R. HELMERS

ERASMUS UNIVERSITEIT, ROTTERDAM, THE NETHERLANDS

A.L.M. Dekkers 14 November 1991 On extreme-value estimation (co-
promotor with L. de Haan as promotor)

THE FOURTH GENERATION (continued)

THE PHD STUDENTS OF C.A.J. KLAASSEN

UNIVERSITEIT VAN AMSTERDAM, THE NETHERLANDS

A.W. van der Vaart*	4 June 1987	Statistical estimation in large parameter spaces (co-promotor with W.R. van Zwet as promotor)
S.A. Venetiaan	6 December 1994	Bootstrap bounds
E.R. van den Heuvel	21 May 1996	Bounds for statistical estimation in semiparametric models
W.J.H. Stortelder	12 March 1998	Parameter estimation in nonlinear dynamic systems (co-promotor with P.W. Hemker as promotor)
A.J. Lenstra	26 Maart 1998	Analyses of the nonparametric mixed proportional hazards model (promotors: C.A.J. Klaassen, G. Ridder and A.C.M. van Rooij)

*Degree obtained at the Rijksuniversiteit Leiden, The Netherlands

THE FOURTH GENERATION (continued)

THE PHD STUDENTS OF R.J.M.M. DOES

UNIVERSITEIT VAN MAASTRICHT, THE NETHERLANDS

Tj. Imbos	17 February 1989	Het gebruik van einddoeltoetsen bij aanvang van de studie (co-promotor with W.H.F.W. Wijnen as promotor)
L.W.G. Strijbosch	21 April 1989	Experimental design and statistical evaluation of limiting dilution assays (co-promotor with W. Albers as promotor)

UNIVERSITEIT VAN AMSTERDAM, THE NETHERLANDS

E.S. Tan	16 December 1994	A stochastic growth model for the longitudinal measurement of ability (co-promotor: Tj. Imbos)
C.B. Roes	27 November 1995	Shewhart-type charts in statistical process control
A.F. Huele	5 November 1998	Statistical robust design (co-promotor: J. Engel)

THE FOURTH GENERATION (continued)

THE PHD STUDENTS OF S.A. VAN DE GEER

RIJKSUNIVERSITEIT LEIDEN, THE NETHERLANDS

M. Wegkamp

26 June 1996

Entropy methods in statistical estimation
(co-promotor with W.R. van Zwet
as promotor)

THE FOURTH GENERATION (continued)

THE PHD STUDENTS OF P. VAN DER LAAN

LANDBOUWUNIVERSITEIT WAGENINGEN, THE NETHERLANDS

T.A. Buishand	6 April 1977	Stochastic modelling of daily rainfall sequences (promotors: W.H. van der Molen and P. van der Laan)
J. Engel	29 May 1987	The analysis of dependent count data
L.R. Verdooren	3 February 1988	Statistical inference on variance components
C.J. Dourleijn	22 Maart 1993	On statistical selection in plant breeding (co-promotor: L.R. Verdooren)

TECHNISCHE UNIVERSITEIT EINDHOVEN, THE NETHERLANDS

S.G.A.J. Driessen	3 April 1992	Statistical selection: Multiple comparison approach
P.M. Upperman	23 March 1993	Designs with a small number of runs for factorial experiments (first promotor: P. van der Laan, second promotor: R. Doornbos; co-promotor: E. E. M. van Berkum)
J. Jansen	27 April 1993	Generalized linear mixed models and their application in plant breeding research (promotors: P. van der Laan and B.J.T. Morgan)
F.P.A. Coolen	1 February 1994	Statistical modeling of expert opinions using imprecise probabilities (promotors: P. van der Laan and P.C. Sander; co-promotor: M.J. Newby)
R.W.M. Jeurissen	6 July 1999	DeOfEX, an application for generating experimental design and analysing experimental data (First promotor: P. van der Laan, second promotor: B. G. M. Vandeginste; co-promotor: E. E. M. van Berkum)

THE FOURTH GENERATION (continued)

THE PHD STUDENTS OF E. E. M. VAN BERKUM

TECHNISCHE UNIVERSITEIT EINDHOVEN, THE NETHERLANDS

P. M. Upperman	23 March 1993	Designs with a small number of runs for factorial experiments (co-promotor with P. van der Laan as first and R. Doornbos as second promotor)
R. W. M. Jeurissen	6 July 1999	DeOfEx, an application for generating experimental designs and analysing experimental data (co-promotor with P. van der Laan as first and B. G. M. Vandeginste as second promotor)

THE FOURTH GENERATION (continued)

THE PHD STUDENTS OF K. SIJTSMA

VRIJE UNIVERSITEIT, AMSTERDAM , THE NETHERLANDS

R.R. Meijer	17 January 1994	Nonparametric person fit analysis (co-promotor with W. Molenaar and P.J.D. Drenth as promotors)
A.C. Verweij	20 December 1994	Scaling transitive inference in 7-12 year old children (co-promotor with W. Koops as promotor)

UNIVERSITEIT VAN AMSTERDAM, THE NETHERLANDS

K. van Dam*	28 February 1996	Dansende beren. Beoordelingsprocessen bij personeelsselectie (promotor: G.J. Mellenbergh; co-promotors: W.M.M. Altink and K. Sijtsma)
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RIJKSUNIVERSITEIT UTRECHT, THE NETHERLANDS

B.T. Hemker**	27 September 1996	Unidimensional IRT models for polytomous items, with results for Mokken scale analysis (co-promotor with P.G.M. van der Heijden and W. Molenaar as promotors)
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* K. van Dam received the 1996 NITPB prize for his PhD thesis.

** Degree awarded *cum laude*

THE FOURTH GENERATION

THE PHD STUDENTS OF F. LOMBARD

UNIVERSITEIT VAN SUID AFRIKA, PRETORIA

A.P. Burger	1981	The asymptotic distribution of sequential rank statistics under fixed alternatives
C.M. Erasmus	1988	Asymptotic distributions of quadratic forms occurring in change-point problems

RANDSE AFRIKAANSE UNIVERSITEIT, JOHANNESBURG, SOUTH AFRICA

J.L. Fresen	1993	Residual processes in robust regression (supervisors: F. Lombard and T. de Wet)
J.L. van Wyk	1995	Estimation and testing in binomial and normal multiple change-point problems

THE FOURTH GENERATION

THE PHD STUDENTS OF G. DUCHARME

UNIVERSITÉ DE MONTRÉAL, CANADA

B. Boulerice	9 December 1994	Sur des familles de distributions pour données directionnelles et leur test d'ajustement
M.-C. Guertin	September 1999	Comportement asymptotique des splines de régression des moindres carrés en estimation fonctionnelle

THE FIFTH GENERATION

THE PHD STUDENTS OF G. VAN DER LAAN

VRIJE UNIVERSITEIT, AMSTERDAM, THE NETHERLANDS

P. Jurriens	12 June 1987	Dissemination of information, a stochastic general equilibrium analysis (co-promotor with A.H.Q.M. Merkies as promotor)
O.J.C. Cornielje	3 October 1990	Rationing and capital mobility in applied general equilibrium models (promotors: W.J. Keller and G. van der Laan)
M.W. Hofkes	30 May 1991	Modelling and computation of general equilibrium
H. Houba*	22 December 1994	Game theoretic models of bargaining (promotors: G. van der Laan and A.J. de Zeeuw)
W. Bolt	3 March 1997	Theory of negotiation, a game-theoretic approach
R.J.G. Venniker	18 June 1997	Transition processes from constrained to Walrasian equilibrium (promotors: G. van der Laan and A.H.Q.M. Merkies)
M.F. Cornet	24 March 1998	Game-theoretic models of bargaining and externalities

*Degree obtained at the Katholieke Universiteit Brabant, Tilburg, The Netherlands

THE FIFTH GENERATION (continued)

THE PHD STUDENTS OF A.J.J. TALMAN

KATHOLIEKE UNIVERSITEIT BRABANT, TILBURG, THE NETHERLANDS

T.M. Doup	15 December 1987	Simplicial algorithms on the simpletope (co-promotor with P.H.M. Ruys as promotor)
C. Dang*	15 March 1991	The D1-triangulation in simplicial algorithms
A.H. van den Elzen	5 July 1991	Adjustment processes for exchange economies and noncooperative games (co-promotor: J.H. van Geldrop)
J.A.W.M. Kremers	20 December 1991	Pivoting algorithms for complementarity problems in economies
J.H. Bogers**	14 January 1992	The influence of changes in a steady state demographical development on economic equilibria: A general equilibrium approach (promotors: H.N. Weddepohl and A.J.J. Talman)
P.J.J. Herings*	23 June 1995	Static and dynamic aspects of general disequilibrium (co-promotor: J.H. van Geldrop)
Z. Yang*	12 January 1996	Simplicial fixed point algorithms
H.M. Webers	10 June 1996	Competition in spatial location models
M. Kosfeld*	30 June 1999	Individual decision-making and social interaction (promotors: P.H.M. Ruys and A.J.J. Talman)
S. Schalk	17 December 1999	Equilibrium theory: A salient approach (co-promotor: S.J.L. van Eijndhoven)

* degree obtained *cum laude*

** degree obtained at the Universiteit van Amsterdam, The Netherlands

THE FIFTH GENERATION (continued)

THE PHD STUDENTS OF O.J. VRIEZE

UNIVERSITEIT MAASTRICHT, THE NETHERLANDS

F. Thuijsman	23 June 1989	Optimality and equilibria in stochastic games (promoters: S.H. Tijs and O.J. Vrieze)
J. Rotmans	20 September 1990	IMAGE, An integrated model to assess the greenhouse effect
J.J.M. Derks	12 December 1991	On polyhedral cones of cooperative games (promoters: S.H. Tijs and O.J. Vrieze)
F.C.R. Spieksma	21 February 1992	Assignment and scheduling algorithms in automated manufacturing (co-promotor: Y. Crama)
H.J. Arens	25 June 1992	Arthroscopy of the shoulder (promoters: A. van der Linden and O.J. Vrieze)
J. van der Stel	10 June 1993	Strategy-proof voting schemes on Euclidian spaces (promoters: H.J.M. Peters and O.J. Vrieze)
M. den Elzen	2 December 1993	Global environmental change, an integrated modelling approach (promoters: J. Rotmans and O.J. Vrieze)
J. Kuipers	15 June 1994	Combinatorial methods in cooperative game theory (promoters: S.H. Tijs and O.J. Vrieze with J.J.M. Derks as co-promotor)
G.M. Boas	7 April 1994	Scenario-analysis econometric aspects of coronary heart diseases (promotor with R.T.J.M. Janssen as co-promotor)
G.G. van Merode	17 March 1994	Decision support for clinical laboratory capacity planning (promoters: A. Hasman, J.H.A.M. Maarse and O.J. Vrieze with H.M.J. Goldschmidt as co-promotor)
M.A. Janssen	29 November 1996	Meeting targets: Tools to support integrated assessment modelling of global change (promoters: J. Rotmans and O.J. Vrieze)

THE PHD STUDENTS OF O.J. VRIEZE (continued)

UNIVERSITEIT MAASTRICHT, THE NETHERLANDS

M. Oosten	6 December 1996	A polyhedral approach to grouping problems (promotors: Y. Crama, A.W.J. Kolen and O.J. Vrieze)
R. Joosten	12 December 1996	Dynamics, equilibria and values (promotors: H.J.M. Peters and O.J. Vrieze; co-promotor: F. Thuijsman)
E. Stúriková	20 February 1997	Correlation based methods for ultrasound blood velocity estimation. A comparative study (promotors: A.P.G. Hoeks and O.J. Vrieze; co-promotor: R. Luesink)
W.J.M. Martens	27 March 1997	Health impacts of climate change and ozone depletion: An eco-epidemiological modelling approach (promotors: J. Rotmans and O.J. Vrieze)
J.H.G.C. Rutten	4 June 1998	Polyhedral clustering (co-promotor: F.C.R. Spijksma)
J. Flesch	18 November 1998	Stochastic games with the average reward (co-promotor: F. Thuijsman)

THE FIFTH GENERATION (continued)

THE PHD STUDENTS OF L. STOUGIE

NORWEGIAN UNIVERSITY OF SCIENCE AND TECHNOLOGY, TRONDHEIM, NORWAY

A. Tomasgard	23 December 1998	Aspects of service provision and distributed processing in a telecommunications network
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THE FIFTH GENERATION (continued)

THE PHD STUDENTS OF M.W.P. SAVELSBERGH

TECHNISCHE UNIVERSITEIT EINDHOVEN, THE NETHERLANDS

M. Sol	8 November 1994	Column generation techniques for pickup and delivery problems (promotors: J.K. Lenstra and M.W.P. Savelsbergh)
J.M. van den Akker	21 December 1994	LP-based solution methods for single-machine scheduling problems (promotors: J.K. Lenstra and M.W.P. Savelsbergh; co-promotor: C.A.J. Hurkens)
M. Wennink	15 September 1995	Algorithmic support for automated planning boards (promotors J.K. Lenstra and M.W.P. Savelsbergh)

GEORGIA INSTITUTE OF TECHNOLOGY, ATLANTA, USA

Z. Gu	August 1995	Lifted cover inequalities for 0-1 and mixed integer programs (supervisors: G. Nemhauser and M.W.P. Savelsbergh)
J. Linderoth	10 December 1996	Topics in parallel integer programming
A. Atamturk	14 July 1998	Flow models in integer programming (supervisors: G. Nemhauser and M.W.P. Savelsbergh)
A. Miller	10 September 1999	Polyhedral approaches to solving hard lot-sizing problems (supervisors: G. Nemhauser and M.W.P. Savelsbergh)
V. Nori	24 November 1999	Algorithms for stochastic and dynamic logistics problems (supervisors: A. Kleywegt and M.W.P. Savelsbergh)

THE FIFTH GENERATION (continued)

THE PHD STUDENTS OF J.A. HOOGEVEEN

TECHNISCHE UNIVERSITEIT EINDHOVEN, THE NETHERLANDS

W. Yu	5 June 1996	The two-machine flow shop problem with delays and the one-machine total tardiness problem (co-promotor with J.K. Lenstra as first and P.Brucker as second promotor)
A.P.A. Vestjens	7 November 1997	On-line machine scheduling (co-promotor with J.K. Lenstra as first and E.H.L. Aarts as second promotor)

THE FIFTH GENERATION (continued)

THE PHD STUDENTS OF J.H.M. KORST

TECHNISCHE UNIVERSITEIT EINDHOVEN, THE NETHERLANDS

W.F.J. Verhaegh	20 December 1995	Multidimensional periodic scheduling (co-promotor with E.H.L. Aarts as first and J.K. Lenstra as second promotor)
E. de Kock	15 December 1999	Video signal processor mapping (co- promotor with E.H.L. Aarts and P.A.J. Hilbers as promotors)

THE FIFTH GENERATION (continued)

THE PHD STUDENTS OF W.F.J. VERHAEGH

TECHNISCHE UNIVERSITEIT EINDHOVEN, THE NETHERLANDS

A. van der Werf	26 August 1998	Processing unit design (co-promotor with E.H.L. Aarts as first and Th. Krol as second promotor).
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THE FIFTH GENERATION (continued)

THE PHD STUDENTS OF W. YU

FUDAN UNIVERSITY, CHINA

X. Zhao*	June 1989	Convergence analysis of the variable metric method using finite difference quotient
Z. Huang*	December 1989	ABS method for nonlinear problems
Z. Yin	9 January 1998	Pseudo-polynomial algorithms for some scheduling problems (in Chinese)

EAST CHINA UNIVERSITY OF SCIENCE AND TECHNOLOGY, CHINA

Z. Liu	17 April 1998	Scheduling groups of jobs and scheduling batch machines (in Chinese)
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* These two students obtained their PhDs before their promotor received his PhD. As J. K. Lenstra (Yu's promotor) remarked in this connection, "Do children who are born before their parents are born belong to the parents family tree?" I do not know the answer to that question and have included them.

THE FIFTH GENERATION (continued)

THE PHD STUDENTS OF W.C.M. KALLENBERG

VRIJE UNIVERSITEIT, AMSTERDAM, THE NETHERLANDS

A.D.M. Kester	22 June 1983	Some large deviation results in statistics (co-promotor with J. Oosterhoff as promotor)
F.C. Drost	7 October 1987	Asymptotics for generalized chi-square goodness-of-fit tests (co-promotor with J. Oosterhoff as promotor)

UNIVERSITEIT TWENTE, ENSCHEDE, THE NETHERLANDS

D.P. Kroese	22 June 1990	Stochastic models in reliability (co-promotor with J.H.A. de Smit as promotor)
G.D. Otten	23 June 1995	Statistical test limits in quality control (co-promotor with W. Albers as promotor)
G.R.J. Arts	12 June 1998	Test limits in quality control using correlated product characteristics (co-promotor with W. Albers as promotor)
P.C. Boon	17 December 1999	Asymptotic behavior of pre-test procedures (co-promotor with W. Albers as promotor)

THE FIFTH GENERATION (continued)

THE PHD STUDENTS OF P. GROENEBOOM

UNIVERSITEIT VAN AMSTERDAM, THE NETHERLANDS

J. Praagman *	27 June 1986	Efficiency of change-point tests (promotors: P. Groeneboom and P.C. Sander)
A.J. van Es	2 November 1988	Aspects of nonparametric density estimation (co-promotor: P.L.J. Janssen)
F.A.G. Windmeyer	9 June 1992	Goodness of fit in linear and qualitative-choice models (promotors: P. Groeneboom and H. Neudecker)

TECHNISCHE UNIVERSITEIT DELFT, THE NETHERLANDS

E.A.G. Weits	17 May 1990	A stochastic heat equation for freeway traffic flow
A.J. Cabo	28 June 1994	Set functionals in stochastic geometry (promotors: A.J. Baddeley and P. Groeneboom)
G. Jongbloed	9 October 1995	Three statistical inverse problems - estimators, algorithms, asymptotics
R.B. Geskus	11 February 1997	Estimation of smooth functionals with interval censored data and something completely different
P.P. de Wolf	5 October 1999	Estimating the extreme value index - tales of tails

*Degree obtained at the Technische Universiteit Eindhoven, The Netherlands

THE FIFTH GENERATION (continued)

THE PHD STUDENTS OF R.D. GILL

VRIJE UNIVERSITEIT, AMSTERDAM, THE NETHERLANDS

B.F. Schriever	21 June 1985	Order dependence (co-promotor with J. Oosterhoff as promotor)
R.H. Baayen	29 May 1989	A corpus-based approach to morphological productivity (promotors: G.E. Booij and R.D. Gill)

RIJKSUNIVERSITEIT LEIDEN, THE NETHERLANDS

S.A. van de Geer	30 September 1987	Regression analysis and empirical processes (promotors: W.R. van Zwet and R.D. Gill)
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UNIVERSITEIT VAN AMSTERDAM, THE NETHERLANDS

L.C. van der Gaag	26 September 1990	Probability-based models for plausible reasoning (promotors: J.A. Bergstra and R.D. Gill)
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THE PHD STUDENTS OF R.D. GILL (continued)

RIJKSUNIVERSITEIT UTRECHT, THE NETHERLANDS

M.C.J. van Pul	24 February 1993	Statistical analysis of software reliability (co-promotor: K.O. Dzhaparidze)
M. J. van der Laan	13 December 1993	Efficient and inefficient estimation in semiparametric models (promotors: R.D. Gill and P.J. Bickel)
B.J. Wijers	19 January 1995	Nonparametric estimation for a win- dowed line-segment process
C.G.M. Oudshoorn	7 November 1996	Optimality and adaptivity in nonpara- metric regression (co-promotor: B.Y. Levit)
C.M.A. Schipper	15 January 1997	Sharp asymptotics in nonparametric es- timation (co-promotor B.Y. Levit)
R.W. van der Hofstad	16 June 1997	One-dimensional random polymers (promotors: W.Th.F. den Hollander and R.D. Gill)
E.N. Belitser	17 June 1997	Minimax estimation in regression and random censorship models (co- promotor: B.Y. Levit)
Y. Nishiyama	25 May 1998	Entropy methods for martingales
G.E. Krupa	2 November 1998	Limit theorems for random sets (co- promotor: E.J. Balder)
E.W. van Zwet	3 September 1999	Likelihood devices in spatial statistics

THE FIFTH GENERATION (continued)

THE PHD STUDENTS OF P.D. BEZEMER

UNIVERSITEIT VAM AMSTERDAM, THE NETHERLANDS

H. Walinga	30 May 1985	Varioliforme erosies - Een onderzoek naar de etiologie (promotor: G.N.J. Tjtgat; co-promotors: W. Dekker, P.J. Kostense and P.D. Bezemer)
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VRIJE UNIVERSITEIT, AMSTERDAM, THE NETHERLANDS

E.S.M. de Lange-de Klerk	19 May 1993	Effects of homoeopathic medicines on children with recurrent upper respiratory tract infections (co-promotor with L.Feenstra and O.S. Miettinen as promotors)
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L. van den Berg	31 October 1997	Postoperatieve pijnbestrijding: Een prospectieve studie naar de kosteneffectiviteit van twee methoden (promotor: J.J. de Lange; co-promotors: W.W.A. Zuurmond and P.D. Bezemer)
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THE FIFTH GENERATION (continued)

THE PHD STUDENTS OF F.C. DROST

Katholieke Universiteit Brabant, Tilburg, The Netherlands

B.J.M. Werker

14 September 1995

Statistical methods in financial econometrics (co-promotor with B.B. van der Genugten and Th.E. Nijman as promoters)

THE FIFTH GENERATION (continued)

THE PHD STUDENTS OF M.N.M. VAN LIESHOUT

UNIVERSITY OF WARWICK, COVENTRY, UNITED KINGDOM

E. Thönnnes

24 November 1998

Perfect and imperfect simulations in
stochastic geometry in image analysis
(co-promotor with W.S. Kendall as pro-
motor)

THE FIFTH GENERATION (continued)

THE PHD STUDENTS OF J.A.M. VAN DRUTEN

UNIVERSITEIT VAN AMSTERDAM, THE NETHERLANDS

J.C.M. Hendriks

7 May 1999

The incubation period of AIDS (co-
promotor with R.A. Coutinho and
G.J.F. van Griensven as promotors)

THE FIFTH GENERATION (continued)

THE PHD STUDENTS OF J.H.J. EINMAHL

UNIVERSITEIT TWENTE, ENSCHEDE, THE NETHERLANDS

A.J. Koning	8 March 1991	Stochastic integrals and goodness-of-fit tests (co-promotor with W. Albers as promotor)
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ERASMUS UNIVERSITEIT, ROTTERDAM, THE NETHERLANDS

H. Xin	15 January 1992	Statistics of bivariate extreme values (co-promotor with L. de Haan as promotor)
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A.K. Sinha	2 October 1997	Estimating failure probability when failure is rare: multidimensional case (co-promotor with L. de Haan as promotor)
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THE FIFTH GENERATION (continued)

THE PHD STUDENTS OF J.A. BEIRLANT

KATHOLIEKE UNIVERSITEIT LEUVEN, BELGIUM

P. Vynckier	1996	Tail estimation, quantile plots and regression diagnostics
C. Vynckier	1997	Applications of generalized quantiles in multivariate statistics

THE FIFTH GENERATION

THE PHD STUDENTS OF Tj. IMBOS

RIJKSUNIVERSITEIT UTRECHT, THE NETHERLANDS

E.S. Tan

16 December 1994

A stochastic growth model for the longitudinal measurement of ability (copromotor with R.J.M.M. Does as promotor)

THE SIXTH GENERATION

THE PHD STUDENTS OF L.C. VAN DER GAAG

RIJKSUNIVERSITEIT UTRECHT, THE NETHERLANDS

R.R. Bouckaert

13 June 1995

Bayesian belief networks: From construction to inference (co-promotor with J. van Leeuwen as promotor)

THE SIXTH GENERATION (continued)

THE PHD STUDENTS OF M.J. VAN DER LAAN

UNIVERSITY OF CALIFORNIA, BERKELEY, USA

A.E. Hubbard	1998	Applications of locally efficient estimation to censored data models
D.R. Peterson	1998	On nonparametric estimation and inference with censored data, bandwidth selection for local polynomial regression, and subset selection in explanatory regression analysis

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